

Technical Data Sheet Plenum Communication Cables



WEST PENN WIRE

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PART NUMBER:	25301B
DESCRIPTION:	22/3 Stranded bare copper conductors, shielded with an overall jacket.
NEC RATING:	CMP, NEC Article 800
APPROVALS:	(UL) C(UL) Listed or c(ETL)us Listed
APPLICATION:	Indoor within ducts, plenums, and other spaces used for environmental air for (Intercom Systems, Security Systems, Sound, Audio, Background Music)

Construction Parameters:

Conductor	22 AWG Bare Copper
Stranding	7x30
Insulation Material	Polymer Alloy
Insulation Thickness	0.010" Nom.
Number of Conductors	3
Shield	100% Aluminum Polyester Foil
Drain	Stranded Tinned Copper
Jacket Material	Flexible Plenum
Jacket Thickness	0.015" Nom.
Overall Cable Diameter	0.141" Nom.
Approximate Cable Weight	18 Lbs/1M' Nom.
Flame Rating	NFPA 262 Flame Test

Electrical & Environmental Properties:

Temperature Rating	-10°C To +60°C
Operating Voltage	300 V RMS
Max.Capacitance Between Conductors @ 1 KHz	55 pf/ft Nom.
Capacitance Between Conductors to Shield @ 1 KHz	99 pf/ft Nom.
DC Resistance per Conductor @ 20deg C	17 Ohms/1M' Nom.
Insulation Colors	Black, Red
Jacket Color	Gray
RoHS Compliant	--

Mechanical Properties:

Max. Recommended Pull Tension	42 lbs
Min. Bend Radius (Install)	1.4"

Specification Issue Date: 7/06

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Cold Environment Precautions: Due to the nature of
PVC Compounds to become non-pliable when stored
or handled in ambient temperatures of 32 deg. F or
less, we recommend the following:

**"Prior to installation, condition the cable for at
least 24 hours at room temperature to provide the
best flex properties for ease of installation."**

Standard Lengths are 1000ft.

The Jacket is sequentially footmarked.

The information presented here is, to the best of our
knowledge, is true and accurate. However, since
conditions of use are beyond our control, all
recommendations or suggestions are presented
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Cable Substitution Chart per 2008 NEC®

Fire Resistance level highest to lowest Test Requirements	NEC Reference Article							Canada	
	800	725	760	820	770	830		Comm.	PCC
Plenum NFPA 262, CSA FT6 UL-910 Steiner Tunnel	CMP	CL3P CL2P	FPLP	CATVP	OFNP OFCP	BLP		CMP	FT6
Riser UL-1666 Vertical Shaft	CMR	CL3R CL2R	FPLR	CATVR	OFNR OFCR	BMR BLR		CMR	
General Purpose UL-1685 or CSA FT4 Vertical Tray or CSA FT4	CMG CM	PLTC CL3 CL2	FPL	CATV	OFNG OFN OFCG OFC	BM BL		CMG CM	FT4
Dwellings UL-1581 or VW-1 Vertical Flame	CMX	CL3X CL2X		CATVX				CMX	
						BLX		CMH	FT1

Rating	Approved Substitutions	
CMP	No substitutions	
CL3P	CMP	
CL2P	CMP, CL3P	
FPLP	CMP	
CATVP	CMP, BLP	
OFNP	No substitutions	
OFCP	OFNP	
BLP	CMP, CL3P	
CMR	CMP	
CL3R	CMP, CL3P, CMR	
CL2R	CMP, CL3P, CL2P, CMR, CL3R	
FPLR	CMP, FPLP, CMR	
CATVR	CATVP, CMP, CMR, BMR, BLP, BLR	
OFNR	OFNP	
OFCR	OFNP, OFCP, OFNR	
BMR	No substitutions	
BLR	CMP, CL3P, CMR, CL3R, BLP, BMR	
CMG	CMP, CMR	
CM	CMP, CMR, CMG	
PLTC	No substitutions	
CL3	CMP, CL3P, CMR, CL3R, CMG, CM, PLTC	
CL2	CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC	
FPL	CMP, FPLP, CMR, FPLR, CMG, CM,	
CATV	CATVP, CMP, CATVR, CMR, CMG, CM, BMR, BM, BLP, BLR, BL	
OFNG	OFNP, OFNR	
OFN	OFNP, OFNR, OFNG	
OFCG	OFNP, OFCP, OFNR, OFCR, OFN	
OFC	OFNP, OFCP, OFNR, OFCR, OFN, OFCG	
BM	BMR	
BL	CMP, CL3P, BLP, CMR, CL3R, BMR, BLR, CMG, CM, CL3, BM	
CMX	CMP, CMR, CMG, CM	
CL3X	CMP, CL3P, CMR, CL3R, CMG, CM, PLTC, CL3, CMX	
CL2X	CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC, CL3, CL2, CMX, CL3X	
CATVX	CATVP, CMP, CATVR, CMR, CATV, CMG, CM, BMR, BM, BLP, BLR, BL, BLX	
BLX	CMP, CMR, CM, CMG, CMX, CL3P, CL3R, CL3, CL3X, BMR, BM, BLP, BRP, BL	

Temperature: 60°C, 75°C, 105°C, 125°C . Higher temperature is OK to substitute for lower temperature rating
 No temperature on jacket is equal to 60°C per NEC code
 Canada temperature limit is 60°C on conductors

Special Note: Ratings MPP, MPR, MPG, and MP were phased out effective July 1, 2003



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